



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
5051
 Component
Left Final Drive
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221921	JR0195536	JR0195085
Sample Date		Client Info		17 Jun 2024	16 Feb 2024	30 Nov 2023
Machine Age	hrs	Client Info		2469	1772	1389
Oil Age	hrs	Client Info		2000	500	500
Filter Age	hrs	Client Info		2000	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		33	76	21
Iron	ppm	ASTM D5185m	>500	143	318	74
Chromium	ppm	ASTM D5185m	>10	6	5	2
Nickel	ppm	ASTM D5185m	>10	<1	2	0
Titanium	ppm	ASTM D5185m		4	16	1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	65	228	17
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	2	1	0
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

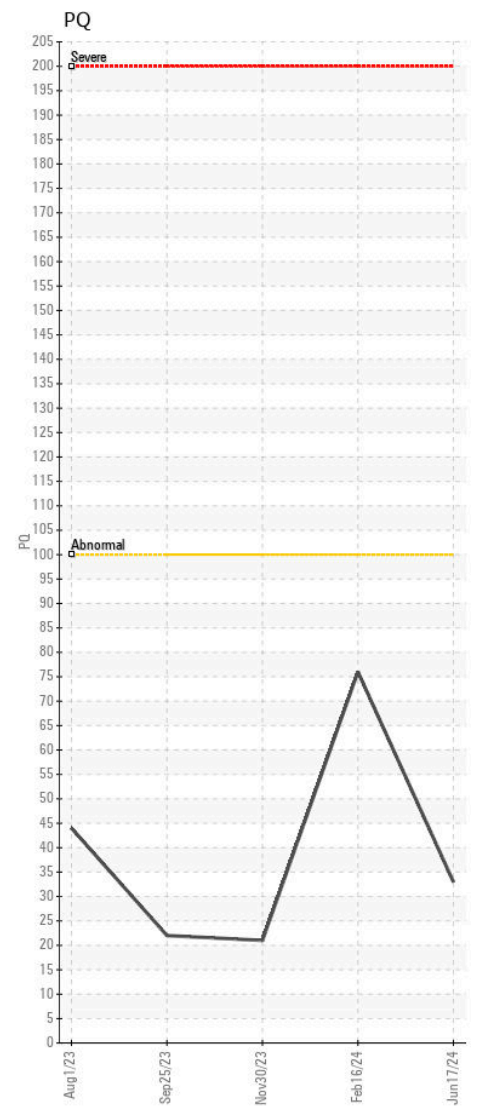
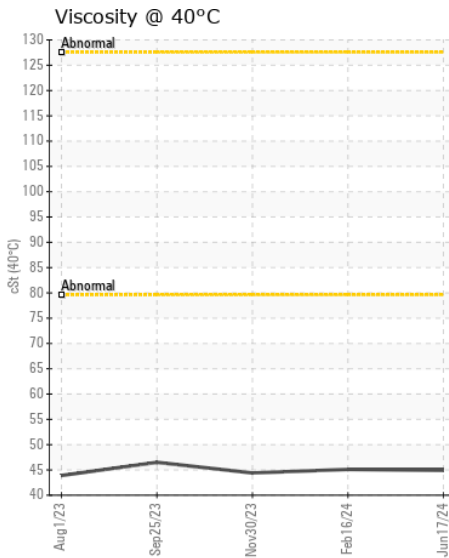
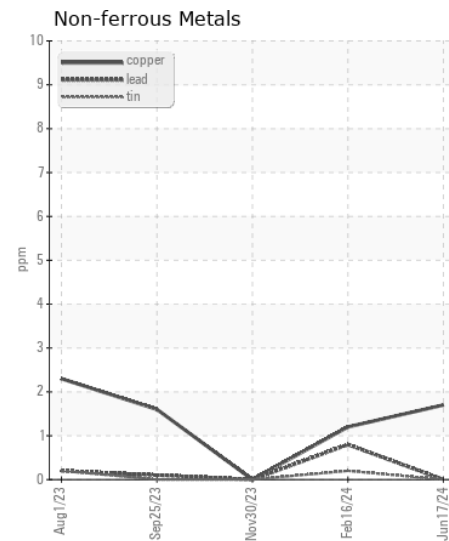
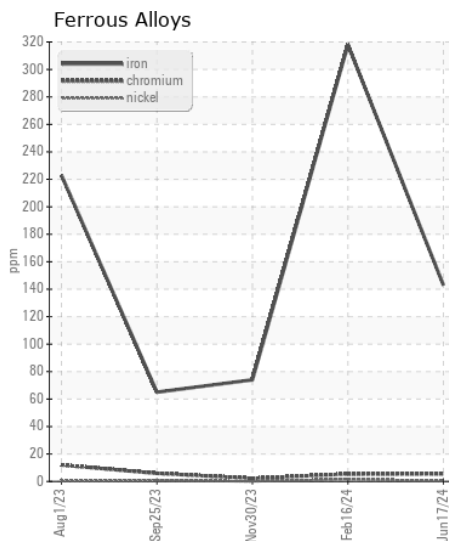
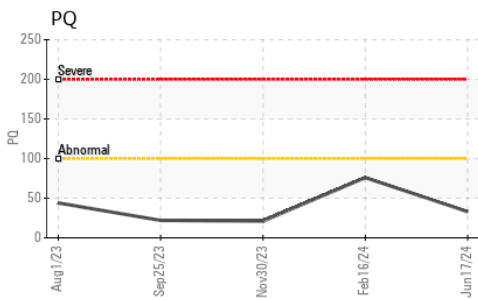
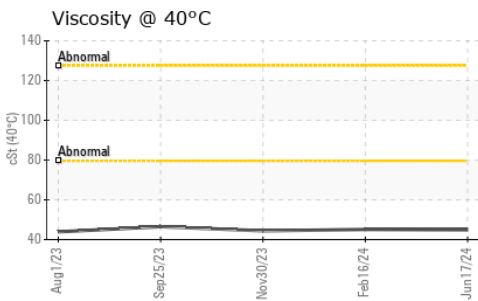
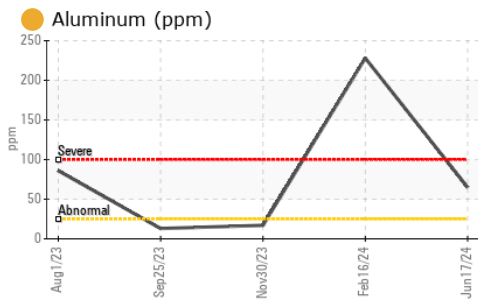
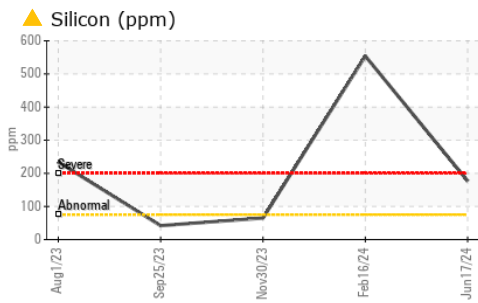
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	177	554	65
Potassium	ppm	ASTM D5185m	>20	19	63	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		7	14	2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		<1	7	0
Molybdenum	ppm	ASTM D5185m		1	1	0
Manganese	ppm	ASTM D5185m		4	7	<1
Magnesium	ppm	ASTM D5185m		16	37	3
Calcium	ppm	ASTM D5185m		163	96	107
Phosphorus	ppm	ASTM D5185m		144	108	210
Zinc	ppm	ASTM D5185m		72	52	206
Sulfur	ppm	ASTM D5185m		848	893	1276
Visc @ 40°C	cSt	ASTM D445		44.9	45.1	44.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221921 **Received** : 21 Jun 2024
Lab Number : 06217100 **Tested** : 24 Jun 2024
Unique Number : 11089964 **Diagnosed** : 24 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

PATRIOT DEVELOPMENT CORP
 27271 LADBROOK DRIVE STE 120
 STERLING, VA
 US 20166
 Contact: ROBERT MOSS
 robert.moss@patriotdev.net

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: